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ATTORNEY DOCKET NO.

08/876,812

APPLICATION NO.

06/17/97

FILING DATE

DOUGLAS

FIRST NAMED INVENTOR

EXAMINER

021839 HM12/0717 BURNS DOANE SWECKER & MATHIS L L P POST OFFICE BOX 1404 ALEXANDRIA VA 22313-1404

PHAM,M_

ART UNIT I

1641

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PAPER NUMBER

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)
Office Action Summary	08/876,812	DOUGLAS ET AL.
	Examiner	Art Unit
	Minh-Quan K. Pham	1641
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.		
 Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). 		
Status		
1) Responsive to communication(s) filed on 17 May 2000.		
2a) This action is FINAL . 2b) ⊠ Thi	s action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-16 and 52-66</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-16 and 52-66</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claims are subject to restriction and/or	election requirement.	
Application Papers		
9) The specification is objected to by the Examine	r.	
10) The drawing(s) filed on is/are objected to by the Examiner.		
11) The proposed drawing correction filed on is: a) approved b) disapproved.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. § 119		
	majorija umdon 25 H O O (2.440/-)	\
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) All b) Some * c) None of the CERTIFIED copies of the priority documents have been:		
a) ☐ All b) ☐ Some c) ☐ None of the CERTIFI 1. ☐ received.	ED copies of the priority docume	nts have been:
2. received in Application No. (Series Code / Serial Number)		
3. received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).		
Attachment(s)		
 15) Notice of References Cited (PTO-892) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _ 	19) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)

Art Unit: 1641

DETAILED ACTION

Continued Prosecution Application

The request filed on May 17, 2000, for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 08/876,812 is acceptable and a CPA has been established. An action on the CPA follows.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 60-66 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claims are drawn to a substrate surface comprising a morphology-improving coating. The claimed coating comprises a conducting coating which is not disclosed in the specification (the specification disclose only a non-conducting, morphology-

Art Unit: 1641

improving coating). Therefore, the claimed coating is new matter, because it comprises material which is not included in the original specification.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 52-66 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 52 and 60 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted element is a reagent capable of reacting with the analyte in the fluid sample to produce a measurable electrical change.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

Art Unit: 1641

claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102((e), f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-16 and 52-66 is rejected under 35 U.S.C. 103(a) as being unpatentable over Diebold et al. (US 5,437,999) in view of Ovahinsky et al. (US 4,217,374).

Diebold et al. disclose electrodes for use as an electrochemical sensor. A working, counter, or reference electrode can be produced by the disclosure of Diebold et al. (see Column 3, lines 50-52). The electrodes are produced by disposing an electrical conducting material on a thin substrate (see column 3, lines 52-65). The thin substrate can be polyamide or other polymer (see column 3, lines 55-56; column 5, lines 66-67; and column 6, lines 35-60). Further, a thin anchor layer can be deposited on the substrate to increase adhesion between the electrical conducting material and the thin substrate (see column 3, lines 58-65). The thin support may also be actinvated with a colloidal catalyst, such as PdCl₂-SnCl₂ hydrosol, before electroless plating deposition of the electrical conducting material (see column 3, line 64 to column 4, line 22).

Diebold et al., however, differ from the claimed invention because they do not disclose an amorphous semiconductor material as the electrical conducting material (electrode).

Ovshinsky et al. disclose the formation of an amorphous semiconductor material to be deposited on a substrate (see column 7, 12)

Art Unit: 1641

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use amorphous semiconductor matterial, as taught by Ovshinsky et al., as the electrode in the sensor of Diebold et al., because amorphous semiconductor material has the advantage of increased conductivity in ohmic interfaces.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Swanson (US 3,710,205); Nishizawa et al. (US 4,634,514); Hill et al. (US 5,820,551); Stetter et al. (US 5,512,882); and Starodub et al. (1999), *Analytica Chimica Acta*, 385:461-466, are cited to show electrochemical sensors. The Weiss et al. reference is a U.S. patent that claims the rejected invention. An affidavit or declaration is inappropriate under 37 CFR 1.131(a) when the patent is claiming the same patentable invention, see MPEP § 2306. The patent can only be overcome by establishing priority of invention through interference proceedings. See MPEP Chapter 2300 for information on initiating interference proceedings.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Quan K. Pham, Ph.D., whose telephone number is (703) 305-1444. The examiner can normally be reached on Monday to Friday, 8 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (703) 305-3399. The fax phone numbers for the

Art Unit: 1641

organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Minh-Quan K. Pham, Ph.D.

July 14, 2000

CHRISTOPHER L. CHIN PRIMARY EXAMINER GROUP_1800- 1641

Christoph L. Chin